

LOCTITE CORPORATION

1001 TROUT BROOK CROSSING
ROCKY HILL, CT 06067-3910
EMERGENCY PHONE: (860) 571-5100

ISSUED 8/07/9
14:34:4
FAX: (860) 571-546

MATERIAL SAFETY DATA SHEET

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Ultra Copper(R) High Temp. RTV Silicone
Gasket Maker 101BR
Item No.: 81878
Part No.: 101BR
Product Type: RTV Silicone

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Poly(dimethylsiloxane), hydroxy terminated	70131-67-8	55-60
Poly(dimethylsiloxane), dimethyl	63148-62-9	20-25
Modified silicon dioxide	68611-44-9	5-10
Vinyl oximinosilane	2224-33-1	5-10
IRON OXIDE	1309-37-1	1-3
SILICA, MICA	12001-26-2	1-3
Substituted urea	23843-64-3	1-3
Methyl ethyl ketoxime	Proprietary	***

***When this product is exposed to moisture, 5-10% methylethylketoxime may be formed.

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Modified silicon dioxide	10 mg/m3	6 mg/m3	6 mg/m3
IRON OXIDE	5 mg/M3 (Fe)	10 mg/M3 (Fe) particulate	None
SILICA, MICA	3 mg/m3 TWA respirable dust	3 mg/m3 TWA respirable dust	None
Methyl ethyl ketoxime	None	None	3 ppm TWA 10 ppm STEL

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Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)

3. HAZARDS IDENTIFICATION

Toxicity: Eye and skin irritant. May be irritating by inhalation. Moderately toxic by ingestion. When heated to temperatures above 300°F (150°F) in the presence of air, this product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Vapors irritate eyes, nose and throat. Safe handling conditions may be maintained by keeping vapor concentrations below the OSHA permissible limit for formaldehyde.

Primary Routes of Entry: Skin or eye contact; inhalation; ingestion.

Signs and symptoms of Exposure: Methyl ethyl ketoxime and methanol vapors produced during cure are toxic and irritates eyes, nose, and throat.

Existing Conditions Aggravated by Exposure: Mica: respiratory conditions.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen NTP IARC OSHA
Poly(dimethylsiloxane), hydroxy terminated	No Data	NO NO NO
Poly(dimethylsiloxane), dimethyl	IRR	NO NO NO
Modified silicon dioxide	No Data	NO NO NO
Vinyl oximinosilane	No Data	NO NO NO

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FAX: (860) 571-5461

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Product Name: Ultra Copper(R) High Temp. RTV Silicone
Item No.: Gasket Maker 101BR
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3. HAZARDS IDENTIFICATION

(continued)

IRON OXIDE	AC4 ALG LUN	NO	N/A	NO
SILICA, MICA	LUN	NO	NO	NO
Substituted urea	No Data	NO	NO	NO
Methyl ethyl ketoxime	ALG BLO CNS IRR	NO	NO	NO

Abbreviations

N/A Not Applicable	AC4 ACGIH-Unclassifiable as human carc
ALG Allergen	BLO Blood
CNS Central nervous system	IRR Irritant
LUN Lung	

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.
Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.
Skin Contact: Wipe off paste with paper towel or cloth. Wash with soap and water.
Eye Contact: Flush at least 15 minutes with water. Obtain medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: More than 200°F Method: Tag Closed Cup
Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical
Special Firefighting Procedures: Not available
Hazardous Products formed by Fire or Thermal Decomp: Formaldehyde, silica fume, oxides of carbon.
Unusual Fire or Explosion Hazards: None
Explosive Limits:
(% by volume in air) Lower Ferric oxide: 2.6%
(% by volume in air) Upper Ferric oxide: 12.5%

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak: Wipe or scrape up spilled material. Maintain good ventilation for large spills. Place scrap material in a well ventilated place and allow to cure to rubber.

7. HANDLING AND STORAGE

Safe Storage: Store in a dry area below 90°F. Keep container closed when not in use.
(Contact Loctite Customer Service 1-800-243-4874 for shelf life information)
Handling: Avoid skin or eye contact. Keep away from eyes. Avoid prolonged breathing of vapors.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.
Skin: Rubber or plastic gloves.
Ventilation: Sufficient to maintain vapor concentration below TLV.
Respiratory: Not available
See Section 2 for Exposure Limits.

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Product Name: Ultra Copper(R) High Temp. RTV Silicone
Item No.: Gasket Maker 101BR
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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Copper paste
Odor: Mild
Boiling Point: Not Applicable, Polymeric
pH: 7-8
Solubility in Water: Polymerized
Specific Gravity: 1.05
Volatile Organic Compound
(EPA Method 24) 5.3%; 56 grams per liter
Vapor Pressure: Less than 5mm at 70°F
Vapor Density: 3.0
Evaporation Rate
(Ether = 1) Not available

10. STABILITY AND REACTIVITY

Stability: Stable
Hazardous Polymerization: Will not occur
Incompatibility: Strong oxidizers, Polymerized by contact with
moisture
Conditions to Avoid: Not available
Hazardous Decomposition
Products (non-thermal): Methyl ethyl ketoxime

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of
disposal: Cured rubber can be incinerated following EPA and
local regulations.
EPA Hazardous Waste
Number NH - Not a RCRA Hazardous Waste Material

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name: Unrestricted
Hazard Class or
Division: Unrestricted
Identification Number: None
Marine Pollutant: None
IATA
Proper Shipping Name: Unrestricted
Class or Division: Unrestricted
UN or ID Number: None

15. REGULATORY INFORMATION

CA Proposition 65: Warning: This product contains a chemical known to
the State of California to cause birth
defects or other reproductive harm.

16. OTHER INFORMATION

Estimated NFPA(R) Code:
Health Hazard: 1
Fire Hazard: 1
Reactivity Hazard: 0
Specific Hazard: Does not apply
Estimated HMIS(R) Code:
Health Hazard: 1
Flammability Hazard: 1

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16. OTHER INFORMATION

(continued)

Reactivity Hazards: 0
Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn.
HMIS is a registered trademark of the National Paint and Coatings Assn.

Prepared By: Stephen Repetto
Title: Research Chemist, Health and Safety
Company: Loctite Corp, 1001 Tr Br Cr, Rocky Hill CT 06067
(24hr.) Phone: (860) 571-5100
Revision Date: April 15, 1997 Revision: 0036

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